Homework 6 Transaction processing

1. a. State a method of data capture that would be suitable for each of the following applications: [3]

Application	Data capture method
Multiple choice exam answers	
Number plates recorded by speed camera	
Bank clerk entering cheque details	

(b) (i) What is meant by Electronic Data Interchange (EDI)? [2]

(i) Name an application for which this would be a suitable method of data exchange. [1]

2. (a) Describe briefly a potential problem that could arise in a multi-user database. [2]

(b) What does ACID stand for in the context of databases? [2]

(c) Explain briefly what ACID is, and its purpose. [3]

3. Explain what is meant by **redundancy** in the context of computer systems and why it is essential for some organisations. [2]

4. Name and briefly describe a serialisation technique which ensures that transactions do not overlap in time and ensures that updates are not lost. [3]

[Total 18 Marks]